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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KM/W.No.14/CSR-05/634i/CEMENT/2018-19 Date: 03.05.2018

TEST REPORT ON CEMENT

* Customer	:	Asst. Executive Engineer, PIA Sub Division, BBMP, Bangalore.
* Agency	:	Smt.K.Manjula No.381,23rd Main Road, 2nd Stage, BTM layout, Bangalore-560076
* Name of Work	:	Improvements to roads and drains at Bhoomika layout in Bagalagunte in Ward No.14, BBMP, Bangalore
* Reference	:	EE/DD /WO/278/2017-18 Dated: 12.03.2018
* Sample ID	:	Cement
Sample Received on	:	02.05.2018
Period of Testing	:	02.05.2018 to 03.05.2018

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VIDYARANI P.K.
Technical Manager

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Job No.: CTCE/BBMP/KM/W.No.14/CSR-05/634i/SAND-Gradation/2018-19 03.05.2018

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	: **Smt.K.Manjula** No.381,23rd Main Road, 2nd Stage, BTM layout, Bangalore-560076
* Name of Work	: Improvements to roads and drains at Bhoomika layout in Bagalagunte in Ward No.14, BBMP, Bangalore
* Sample ID	: EE/DD /WO/278/2017-18 Dated: 12.03.2018
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 02.05.2018
Date of Testing	: 03.05.2018

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.00	90-100	90-100	90-100	95-100
2.36	80.00	60-95	75-100	85-100	95-100
1.18	58.00	30-70	55-90	75-100	90-100
600 Micron	39.50	15-34	35-59	60-79	80-100
300 Micron	23.50	5-20	8-30	12-40	15-50
150 Micron	8.50	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Job No.: CTCE/BBMP/KM/W.No.14/CSR-05/634i/AGG/GR/2018-19 03.05.2018

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	:	**Smt.K.Manjula** No.381,23rd Main Road, 2nd Stage, BTM layout, Bangalore-560076
* Name of Work	:	Improvements to roads and drains at Bhoomika layout in Bagalagunte in Ward No.14, BBMP, Bangalore
* Reference	:	EE/DD /WO/278/2017-18 Dated: 12.03.2018
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	02.05.2018
Date of Testing	:	03.05.2018

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.40	95-100	85-100
20	42.80	30-70	0-20
10	18.72	10-35	0-5
4.75	3.12	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/KM/W.No.14/Steel/2018-19 04.05.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	:	**Smt.K.Manjula** No.381,23rd Main Road, 2nd Stage, BTM layout, Bangalore-560076
* Name of work	:	Improvements to roads and drains at Bhoomika layout in Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	EE/DD /WO/278/2017-18 Dated: 12.03.2018
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	04.05.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	516	557	13.1	O.K	O.K

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KM/W.No.14/Steel/2018-19

04.05.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	:	**Smt.K.Manjula** No.381,23rd Main Road, 2nd Stage, BTM layout, Bangalore-560076
* Name of work	:	Improvements to roads and drains at Bhoomika layout in Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	EE/DD /WO/278/2017-18 Dated: 12.03.2018
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	04.05.2018

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	518	559	13.15	O.K	O.K

*Information is furnished by the Customer/Representative.

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Job No.:CTCE/BBMP/KM/W.No.14/CSR-05/634i/Pre cast slab/2018-19

14.05.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	:	**Smt.K.Manjula** No.381,23rd Main Road, 2nd Stage, BTM layout, Bangalore-560076
* Name of work	:	Improvements to roads and drains at Bhoomika layout in Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	EE/DD /WO/278/2017-18 Dated: 12.03.2018
* Sample ID	:	Pre cast slab (100mm thick)
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	10.05.2018
Date of Testing	:	14.05.2018

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	81.00	0.415	2609.36	1.62	0.959	31.80	16.20	17.49	18.24	22.80
2	50.00	82.00	0.419	2602.38	1.64	0.961	32.98	16.80	18.14	18.87	23.59
3	50.00	83.00	0.425	2607.84	1.66	0.963	33.47	17.05	18.41	19.11	23.89

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Job No.: CTCE/BBMP/KM/W.No.14/CSR-05/634i/Cube/2018-19

05.06.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	:	**Smt.K.Manjula** No.381,23rd Main Road, 2nd Stage, BTM layout, Bangalore-560076
* Name of the work	:	Improvements to roads and drains at Bhoomika layout in Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	EE/DD /WO/278/2017-18 Dated: 12.03.2018
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	05.06.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.05.2018	05.06.2018	8.425	478.3	21.26
2	08.05.2018	05.06.2018	8.364	495.6	22.03
3	08.05.2018	05.06.2018	8.256	511.6	22.74

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05.06.2018

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* Customer	:	**Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	:	**Smt.K.Manjula** No.381,23rd Main Road, 2nd Stage, BTM layout, Bangalore-560076
* Name of the work	:	Improvements to roads and drains at Bhoomika layout in Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	EE/DD /WO/278/2017-18 Dated: 12.03.2018
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	05.06.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.05.2018	05.06.2018	8.114	493.8	21.95
2	08.05.2018	05.06.2018	8.210	511.6	22.74
3	08.05.2018	05.06.2018	8.350	526.4	23.40

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05.06.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	:	**Smt.K.Manjula** No.381,23rd Main Road, 2nd Stage, BTM layout, Bangalore-560076
* Name of the work	:	Improvements to roads and drains at Bhoomika layout in Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	EE/DD /WO/278/2017-18 Dated: 12.03.2018
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	05.06.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.05.2018	05.06.2018	8.118	498.6	22.16
2	08.05.2018	05.06.2018	8.226	516.3	22.95
3	08.05.2018	05.06.2018	8.360	530.3	23.57

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Job No.: CTCE/BBMP/KM/W.No.14/CSR-05/634i/Cube/2018-19 07.06.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	:	**Smt.K.Manjula** No.381,23rd Main Road, 2nd Stage, BTM layout, Bangalore-560076
* Name of the work	:	Improvements to roads and drains at Bhoomika layout in Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	EE/DD /WO/278/2017-18 Dated: 12.03.2018
* Sample ID	:	RCC Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.06.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2018	07.06.2018	8.097	495.6	22.03
2	10.05.2018	07.06.2018	8.199	513.2	22.81
3	10.05.2018	07.06.2018	8.264	522.8	23.24

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Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KM/W.No.14/CSR-05/634i/Cube/2018-19 07.06.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** PIA Sub Division, BBMP, Bangalore.
* Agency	:	**Smt.K.Manjula** No.381,23rd Main Road, 2nd Stage, BTM layout, Bangalore-560076
* Name of the work	:	Improvements to roads and drains at Bhoomika layout in Bagalagunte in Ward No.14, BBMP, Bangalore.
* Reference	:	EE/DD /WO/278/2017-18 Dated: 12.03.2018
* Sample ID	:	RCC Drain Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.06.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2018	07.06.2018	8.105	493.5	21.93
2	10.05.2018	07.06.2018	8.220	505.4	22.46
3	10.05.2018	07.06.2018	8.333	511.9	22.75

*Information is furnished by the Customer/Representative.

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Note:

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VIDYARANI P.K.
Technical Manager

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ಟಿ. ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
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Sample Received on	:	07.06.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2018	07.06.2018	8.123	480.9	21.37
2	10.05.2018	07.06.2018	8.225	490.6	21.80
3	10.05.2018	07.06.2018	8.367	511.3	22.72

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Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.06.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2018	07.06.2018	8.115	474.5	21.09
2	10.05.2018	07.06.2018	8.220	492.3	21.88
3	10.05.2018	07.06.2018	8.360	508.6	22.60

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Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.06.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2018	07.06.2018	8.178	495.6	22.03
2	10.05.2018	07.06.2018	8.285	511.8	22.75
3	10.05.2018	07.06.2018	8.310	524.7	23.32

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Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.06.2018

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2018	07.06.2018	8.250	496.8	22.08
2	10.05.2018	07.06.2018	8.336	518.7	23.05
3	10.05.2018	07.06.2018	8.410	511.9	22.75

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